IN THE CLAIMS

Claims 4-5 and 8 are amended.

1. (Original) A power distribution system comprising:

a first printed circuit board;

a second printed circuit board mounted on the first printed circuit board;

a power supply mounted on the first printed circuit board;

a processor mounted on the second printed circuit board; and

a flexible connector comprising a first end electrically connected to the processor and a second end electrically connected to the power supply and configured with a length so that the power supply is in a spaced relationship relative to the processor, the flexible connector including a plurality of stacked layers arranged generally parallel to each other for distributed power transmission including:

at least two ground layers; and

at least one power layer,

wherein the power layer is sandwiched between two of the at least two ground layers.

2. (Original) The system of claim 1 wherein the second printed circuit board comprises:

a capacitive coupler including a plurality of capacitors, wherein the first end of the flexible connector is electrically connected to the second printed circuit board via the capacitive coupler; and

wherein the second end of the flexible connector is connected directly to the power supply.

3. (Original) The system of claim 1 and further comprising:

a chassis that is removably electrically connected to the first printed circuit board and on which the power supply is mounted and comprising a bus through which the power supply is electrically connected to the second end of the flexible connector.

4. (Currently Amended) The system of claim 1 wherein the flexible connector ~~and~~ further ~~comprising~~ comprises:

at least one signal layer,

wherein the signal layer is separated from the at least one power layer by one of the at least two ground layers.

5. (Currently Amended) The system of claim 4 wherein the flexible connector comprises the signal layer being~~is~~ disposed between two of the at least two ground layers and being~~is~~ separated from the at least one power layer by at least one of the at least two ground layers.

6. (Original) The system of claim 4 wherein the flexible connector comprises the signal layer disposed as an outside layer adjacent only one ground layer of the at least two ground layers.

7. (Original) The system of claim 1 wherein the flexible connector comprises at least one of a flexible circuitry cable and a flexible circuitry board, wherein the flexible connector comprises a resilient and malleable material.

8. (Currently Amended) The system of claim 1 wherein the flexible connector is physically spaced from a surface of the first printed circuit board.

9. (Original) A power distribution connector for a processor, the connector comprising:

a flexible circuitry member comprising a first end configured for electrical connecting to a processor and a second end configured for electrical connecting to a power supply, and having a length to maintain a distance between the first end and the second end, and comprising a plurality of stacked layers arranged generally parallel to each other including:

a plurality of ground layers;

at least one power layer; and

wherein the at least one power layer is interposed between at least two of the plurality of ground layers.

10. (Original) A power transmission connector comprising:

means for transmitting power to a power supply and a processor including means for distributing the power between a plurality of ground planes and power planes arranged for minimizing a an inductance loop between the power supply and the processor.

11. (Original) The connector of claim 10 wherein the means for transmitting power comprises a flexible circuitry board comprising a first end electrically connected to the processor and a second end electrically connected to the power supply and configured with a length to separate the power supply from the processor, and means for distributing the power comprises arranging the ground planes and the power planes generally parallel to each other so that at least one power plane is sandwiched between a pair of ground planes.

12-20. (Canceled)

21. (Previously Presented) The power distribution connector of claim 9 and further comprising a power transmission system including the power distribution connector, the system comprising:

a first printed circuit board with the processor mounted on the first printed circuit board and the power supply mounted on the first printed circuit board, and the power distribution connector positioned to be spaced from the first printed circuit board.

22. (Previously Presented) The power distribution connector of claim 9 and further comprising a power transmission system including the power distribution connector, the system comprising:

a first printed circuit board;

a second printed circuit board mounted on the first printed circuit board;

wherein the power supply mounted is on the first printed circuit board and electrically connected to the second end of the connector and wherein the processor is mounted on the second printed circuit board and electrically connected to the first end of the connector.

23. (Previously Presented) The power distribution connector of claim 22 wherein the length of the connector prevents physical co-location of the power supply and the processor relative to the first printed circuit board.

24. (Previously Presented) The power distribution connector of claim 22 wherein the processor is electrically connected to the first end of the connector via a capacitive coupler mounted on the second printed circuit board.

25. (Previously Presented) The power distribution connector of claim 22 wherein the connector is independent of the first printed circuit board and the second printed circuit board.

26. (Previously Presented) The power distribution connector of claim 9 wherein the connector comprises a resilient member configured to maintain its shape.

27. (Previously Presented) The power distribution connector of claim 9 and further comprising a power transmission system including the power distribution connector, the system comprising:

a chassis; and

a circuit card that is removably insertable into the chassis,

wherein the power supply is mounted on the chassis and the processor is mounted on the circuit card with the power supply electrically connected to the second end of the connector and the processor electrically connected to the first end of the connector.

28. (Previously Presented) The system of claim 27 and further comprising:

a bus interface configured to electrically and mechanically connect the circuit card and the chassis wherein the second end of the connector is connected to the power supply via the bus interface.